

For Research Use Only

CoraLite® Plus 488-conjugated Cardiac Troponin I Recombinant monoclonal antibody

Catalog Number: CL488-86791



Basic Information

Catalog Number:

CL488-86791

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG16365

GenBank Accession Number:

BC096165

GeneID (NCBI):

7137

UNIPROT ID:

P19429

Full Name:

troponin I type 3 (cardiac)

Calculated MW:

210 aa, 24 kDa

Observed MW:

24-26 kDa

Purification Method:

Protein A purification

CloneNo.:

251696H7

Recommended Dilutions:

IF-P: 1:50-1:500

FC (Intra): 0.4 ug per 10⁶ cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF-P, FC (Intra)

Species Specificity:

human, mouse, rat

Positive Controls:

IF-P: mouse heart tissue,

FC (Intra): A-673 cells,

Background Information

Troponin I (TnI) is the inhibitory subunit of troponin, the structural protein involved in the regulation of striated muscle contraction. Cardiac Troponin I (cTnI) is produced by cardiac muscle. cTnI has been considered as one of the most specific and sensitive markers of myocardial damage like acute myocardial infarction (AMI) for decades. Detection of cTnI in serum is widely accepted as a diagnostic tool in acute coronary syndromes.

Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

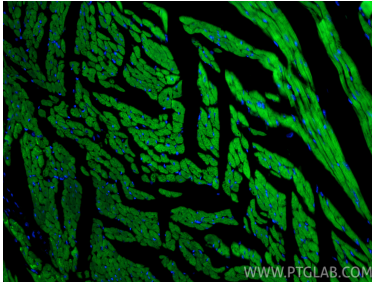
T: 4006900926

E: Proteintech-CN@ptglab.com

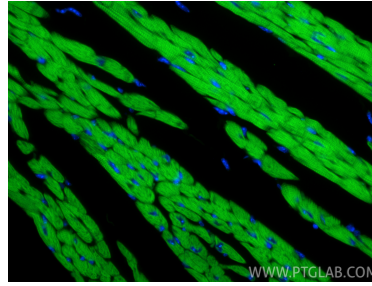
W: ptgcn.com

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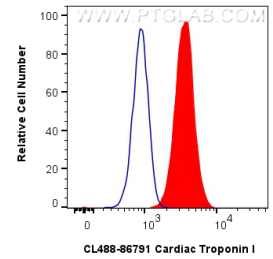
Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using CoraLite® Plus 488 Cardiac Troponin I antibody (CL488-86791, Clone: 251696H7) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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1×10^6 A-673 cells were intracellularly stained with 0.4 μ g CoraLite® Plus 488-conjugated Cardiac Troponin I Recombinant monoclonal antibody (CL488-86791, Clone:251696H7)(red), or 0.4 μ g Isotype Control (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).